FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) OFFICE OF AIR QUALITY

Rieth-Riley Construction Co., Inc. 2454 West CR 450 North LaPorte, Indiana 46350

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F 091-12755-03179			
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: Expiration Date:		

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary hot mix asphalt production source.

Authorized individual: Dean K. Logan

Source Address: 2454 West CR 450 North, LaPorte, Indiana 46350

Mailing Address: PO Box 477, Goshen, Indiana 46527-0477

SIC Code: 2951 County Location: LaPorte

Source Location Status: Attainment for all criteria pollutants

Source Status: Federally Enforceable State Operating Permit (FESOP)

Minor Source, under PSD Rules;

Minor Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) hot oil heater, identified as 14A, to be constructed in 2001, firing natural gas as primary fuel, using #2 fuel oil as backup fuel, exhausting to Stack SV2, capacity: 2.0 million British thermal units per hour.
- (b) One (1) hot oil heater, identified as 14B, originally constructed in 1993, firing natural gas as primary fuel, using #2 fuel oil as backup fuel, exhausting to Stack SV3, capacity: 2.0 million British thermal units per hour.
- (c) One (1) drum/mixer atomizing burner, identified as 3, to be constructed in 2001, firing waste oil as primary fuel, using #2 fuel oil, #4 fuel oil, natural gas, butane gas, and propane gas as backup fuels, equipped with low NO_x burners and exhausting to Stack SV1, capacity: 125 million British thermal units per hour.
- (d) One (1) counterflow drum mixer, identified as 2, to be constructed in 2001, equipped with a bag collector for PM control and exhausted to stack SV1, capacity: 400 tons per hour.
- (e) Two (2) tanks, identified as 13A and 13B, storing liquid asphalt, to be constructed in 2001, equipped with condenser vents and exhausting to Stacks SV4 and SV5, capacity: 30,000 gallons, each.
- (f) Two (2) tanks, identified as 11A and 11B, storing waste oil, to be constructed in 2001, exhausting to Stacks SV6 and SV7, capacity: 15,000 gallons, each.
- (g) One (1) tank, identified as 12, storing #2 fuel oil, to be constructed in 2001, exhausting to stack SV8, capacity: 10,000 gallons.
- (h) One (1) cold feed system, identified as 1, to be constructed in 2001, capacity: 372 tons of aggregate per hour.

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(i) One (1) recycled asphalt system, identified as 10, to be constructed in 2001, capacity: 200 tons per hour. Crusher capacity: 50 tons per hour.

- (j) Three (3) hot mix storage bins, identified as 5, to be constructed in 2001, capacity: 300 tons, each.
- (k) One (1) mineral filler dust silo, identified as 15, to be constructed in 2001, capacity: 500 barrels

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
- (b) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (c) The following VOC and HAP storage containers: vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.
- (d) Refractory storage not requiring air pollution control equipment.
- (e) Cleaners and solvents characterized as follows:
 - (1) having a vapor pressure equal to or less than 2 kiloPascals; 15 millimeters of mercury; or 0.3 pounds per square inch measured at 38EC (100EF) or;
 - (2) having a vapor pressure equal to or less than 0.7 kiloPascals; 5 millimeters of mercury; or 0.1 pounds per square inch measured at 20EC (68EF); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permit Conditions

- (a) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.
- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued.

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SECTION B

GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.4 Enforceability [326 IAC 2-8-6]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM,

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OAQ, copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality.[326 IAC 2-8-4(5)(E)]

(c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; and
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in condition B, Emergency Provisions.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

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Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification:
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015 Rieth-Riley Construction Co., Inc.

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The PMP and the PMP extension notification do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - Ouring the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ and Northwest Regional Office, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section)

or,

Telephone No.: 317-233-5674 (ask for Compliance Section)

Facsimile No.: 317-233-5967

Telephone No.: 219-881-6712 (Northwest Regional Office) Facsimile No.: 219-881-6745 (Northwest Regional Office)

Failure to notify IDEM, OAQ and Northwest Regional Office, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, Rieth-Riley Construction Co., Inc.

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shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

(5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

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(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report.

The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
 - (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
 - (2) Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.
- B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]
 - (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
 - (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.

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- (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
- (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, IN 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
 - (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
 - (2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]

 If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as needed to

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process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act:
 - (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
 - (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J) 77 West Jackson Boulevard Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

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(5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:
 - (1) A brief description of the change within the source;
 - (2) The date on which the change will occur;
 - (3) Any change in emissions; and
 - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) Emission Trades [326 IAC 2-8-15(c)]
 The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]

 The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

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- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management Permits Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

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SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

- (a) Pursuant to 326 IAC 2-8:
 - (1) The potential to emit any regulated pollutant from the entire source shall be limited to less than one-hundred (100) tons per three-hundred and sixty-five (365) consecutive day period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable;
 - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
 - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.
- (c) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.

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C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2. 326 IAC 9-1-2 is not federally enforceable.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.7 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4(d)(3), (e), and (f), and 326 IAC 1-7-5(d) are not federally enforceable.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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Indiana Department of Environmental Management Asbestos Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) Procedures for Asbestos Emission Control

The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator,
prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-8-4(3)]

C.9 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance

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with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial ninety (90) day compliance schedule with full justification of the reasons for inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.12 Maintenance of Emission Monitoring Equipment [326 IAC 2-8-4(3)(A)(iii)]

- (a) In the event that a breakdown of the emission monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no often less than once an hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.13 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

C.14 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

(a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

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(b) Whenever a condition in this permit requires the measurement of a temperature, flow rate, or pH level, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

(c) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.15 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management Compliance Branch, Office of Air Quality 100 North Senate Avenue, P.O. Box 6015 Indianapolis, Indiana 46206-6015

within 180 days from the date on which this source commences operation).

The ERP does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or
- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP).

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All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.17 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. The compliance monitoring plan can be either an entirely new document, consist in whole of information contained in other documents, or consist of a combination of new information and information contained in other documents. If the compliance monitoring plan incorporates by reference information contained in other documents, the Permittee shall identify as part of the compliance monitoring plan the documents in which the information is found. The elements of the compliance monitoring plan are:
 - (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAQ upon request and shall be subject to review and approval by IDEM, OAQ. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of:
 - (A) Reasonable response steps that may be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking reasonable response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to take reasonable response steps may constitute a violation of the permit.
- (c) Upon investigation of a compliance monitoring excursion, the Permittee is excused from taking further response steps for any of the following reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.

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(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.

- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (e) All monitoring required in Section D shall be performed at all times the equipment is operating. If monitoring is required by Section D and the equipment is not operating, then the Permittee may record the fact that the equipment is not operating or perform the required monitoring.
- (f) At its discretion, IDEM may excuse the Permittee's failure to perform the monitoring and record keeping as required by Section D, if the Permittee provides adequate justification and documents that such failures do not exceed five percent (5%) of the operating time in any quarter. Temporary, unscheduled unavailability of qualified staff shall be considered a valid reason for failure to perform the monitoring or record keeping requirements in Section D.

C.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

- (a) When the results of a stack test performed in conformance with Section C Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.19 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

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C.20 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management Compliance Data Section, Office of Air Quality 100 North Senate Avenue, P. O. Box 6015 Indianapolis, Indiana 46206-6015

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

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SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (a) One (1) hot oil heater, identified as 14A, to be constructed in 2001, firing natural gas as primary fuel, using #2 fuel oil as backup fuel, exhausting to Stack SV2, capacity: 2.0 million British thermal units per hour.
- (b) One (1) hot oil heater, identified as 14B, originally constructed in 1993, firing natural gas as primary fuel, using #2 fuel oil as backup fuel, exhausting to Stack SV3, capacity: 2.0 million British thermal units per hour.
- (c) One (1) drum/mixer atomizing burner, identified as 3, to be constructed in 2001, firing waste oil as primary fuel, using #2 fuel oil, #4 fuel oil, natural gas, butane gas, and propane gas as backup fuels, equipped with low NO_X burners and exhausting to Stack SV1, capacity: 125 million British thermal units per hour.
- (d) One (1) counterflow drum mixer, identified as 2, to be constructed in 2001, equipped with a bag collector for PM control and exhausted to stack SV1, capacity: 400 tons per hour.
- (e) Two (2) tanks, identified as 13A and 13B, storing liquid asphalt, to be constructed in 2001, equipped with condenser vents and exhausting to Stacks SV4 and SV5, capacity: 30,000 gallons, each.
- (f) Two (2) tanks, identified as 11A and 11B, storing waste oil, to be constructed in 2001, exhausting to Stacks SV6 and SV7, capacity: 15,000 gallons, each.
- (g) One (1) tank, identified as 12, storing #2 fuel oil, to be constructed in 2001, exhausting to stack SV8, capacity: 10,000 gallons.
- (h) One (1) cold feed system, identified as 1, to be constructed in 2001, capacity: 372 tons of aggregate per hour.
- (i) One (1) recycled asphalt system, identified as 10, to be constructed in 2001, capacity: 200 tons per hour. Crusher capacity: 50 tons per hour.
- (j) Three (3) hot mix storage bins, identified as 5, to be constructed in 2001, capacity: 300 tons, each.
- (k) One (1) mineral filler dust silo, identified as 15, to be constructed in 2001, capacity: 500 barrels.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1 AND 326 IAC 2-8-11.1, WITH CONDITIONS LISTED BELOW.

Construction Conditions

General Construction Conditions

D.1.1 This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

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Effective Date of the Permit

- D.1.2 Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.
- D.1.3 All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.

Affidavit of Construction

- D.1.4 Pursuant to 326 IAC 2-5.1-3.
 - (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), Permit Administration & Development Section.
 - (1) If the Affidavit of Construction verifies that the facilities covered in this Construction Permit were constructed as proposed in the application, then the facilities may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.
 - (2) If the Affidavit of Construction does not verify that the facilities covered in this Construction Permit were constructed as proposed in the application, then the Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section prior to beginning operation of the facilities.
 - (b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
 - (c) Upon receipt of the Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section, the Permittee shall attach it to this document.

Operation Conditions

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.5 Particulate Matter 10 Microns (PM₁₀) [326 IAC 2-8-4]

- (a) Pursuant to 326 IAC 2-8-4, emissions of particulate matter 10 microns or less in diameter (PM₁₀) from the aggregate dryer/mixer shall not exceed 0.1856 pounds per ton of asphalt produced, including both filterable and condensible fractions.
- (b) The source shall not produce more than one million (1,000,000) tons of asphalt per 365 consecutive day period, equivalent to PM₁₀ emissions of 92.8 tons per year based on the 0.1856 pounds of PM₁₀ per ton of asphalt produced. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

D.1.6 Particulate Matter (PM) [40 CFR 60.90]

Pursuant to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90, Subpart I), no owner or operator subject to the provisions of Subpart I shall discharge into the atmosphere from any affected facility any gases which:

(a) Contain particulate matter in excess of 0.04 grains per dry standard cubic foot, equivalent to 16.95 pounds per hour at a flow rate of 70,000 acfm and a temperature of 250 degrees

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Fahrenheit.

(b) Exhibit twenty (20%) percent opacity, or greater.

D.1.7 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate from the drum/mixer exhausted through stack SV1 shall not exceed 66.3 pounds per hour when operating at a process weight rate of 800,000 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate in excess of 60,000 pounds per hour shall be accomplished by use of the equation:

 $E = 55.0 P^{0.11} - 40$ where E =rate of emission in pounds per hour; and P =process weight rate in tons per hour

D.1.8 Sulfur Dioxide (SO₂) [326 IAC 2-8-4] [326 IAC 7-1.1-1] [326 IAC 7-2-1]

- (a) Pursuant to 326 IAC 2-8-4, the input of waste oil to the dryer/burner shall be limited to less than 1,700,673 gallons 365 consecutive day period which is equivalent to SO_2 emissions of less than 90.986 tons per year.
- (b) Pursuant to 326 IAC 7-1.1-2, the sulfur content of the waste oil shall not exceed one percent (1.0%) by weight. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a thirty (30) day rolling weighted average. 326 IAC 7-1.1 and 326 IAC 7-2-1 are not federally enforceable.
- (c) For purposes of determining compliance based on SO₂ emissions, each gallon of #2 distillate oil shall be equivalent to 0.6636 gallons of waste oil, each gallon of #4 distillate oil shall be equivalent to 0.7010 gallons of waste oil, and each million cubic feet of natural gas shall be equivalent to 5.607 gallons of waste oil.
- (d) Pursuant to 326 IAC 7-1.1-2, the sulfur content of the #2 and #4 distillate oils shall not exceed five tenth percent (0.5%) by weight. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a thirty (30) day rolling weighted average. 326 IAC 7-1.1 and 326 IAC 7-2-1 are not federally enforceable.

D.1.9 Nitrogen Oxides (NO_x) [326 IAC 2-8-4]

- (a) Pursuant to 326 IAC 2-8-4, the input of propane to the dryer/burner shall be limited to less than 10,259,000 gallons per 365 consecutive day period which is equivalent to NO_{χ} emissions of less than 97.461 tons per year.
- (b) For purposes of determining compliance based on NO_x emissions, each gallon of #2 distillate oil shall be equivalent to 1.053 gallons of propane, each gallon of #4 distillate oil shall be equivalent to 1.263 gallons of propane, each gallon of butane shall be equivalent to 1.105 gallons of propane, each gallon of waste oil shall be equivalent to 0.8421 gallons of propane, and each million cubic feet of natural gas shall be equivalent to 5.263 gallons of propane.

D.1.10 Volatile Organic Compounds (VOC) [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, liquid binder used in the production of cold mix cutback asphalt shall be limited to less than 1,923 tons of liquid binder per 365 consecutive day period based upon eight (8.0%) percent diluent present in the asphalt. This is equivalent to VOC emissions of less than 95.8 tons per year.

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D.1.11 Volatile Organic Compounds (VOC) [326 IAC 8-5-2]

Pursuant to 326 IAC 8-5-2 (Miscellaneous Operations: asphalt paving), the owner or operator shall: not cause or allow the use of asphalt emulsion containing more than seven (7.0) percent oil distillate by volume of emulsion for any paving application except the following purposes:

- (a) penetrating prime coating
- (b) stockpile storage
- (c) application during the months of November, December, January, February and March

D.1.12 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for drum/mixer dryer and any control devices.

Compliance Determination Requirements

D.1.13 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

With 60 days after achieving maximum production rate, but no later than 180 days after initial startup, the Permittee shall perform PM and PM_{10} testing in order to demonstrate compliance with Conditions D.1.5, D.1.6, and D.1.7 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. PM_{10} includes filterable and condensible PM_{10} . Testing shall be conducted in accordance with Section C- Performance Testing.

D.1.14 VOC Emissions

Compliance with Condition D.1.10 shall be demonstrated within 30 days of the end of each day based on the liquid binder usage for the 365 consecutive day period.

D.1.15 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pounds per million British thermal units heat input by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the 125 million British thermal units per hour burner, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

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D.1.16 Used Oil Requirements

The waste oil burned in the aggregate dryer shall comply with the used oil requirements specified in 329 IAC 13 (Used Oil Management). Pursuant to 329 IAC 13-3-2 (Used Oil Specifications), used oil burned for energy recovery that is classified as off-specification used oil fuel shall comply with the provisions of 329 IAC 13-8 (Used Oil Burners Who Burn Off-specification Used Oil For Energy Recovery), including:

- (a) Receipt of an EPA identification number as outlined in 329 IAC 13-8-3 (Notification),
- (b) Compliance with the used oil storage requirements specified in 329 IAC 13-8-5 (Used Oil Storage), and
- (c) Maintaining records pursuant to 329 IAC 13-8-6 (Tracking).

The burning of mixtures of used oil and hazardous waste that is regulated under 329 IAC 3.1 is prohibited at this source.

D.1.17 Particulate Matter (PM)

In order to comply with Conditions D.1.5, D.1.6 and D.1.7, the baghouse for PM and PM₁₀ control shall be in operation and control emissions from the drum mixer/dryer at all times that the drum mixer/dryer is in operation and exhausting to the outside atmosphere.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.18 Visible Emissions Notations

- (a) Visible emission notations of the conveyers, material transfer points, aggregate storage piles, unpaved roads and the drum mixer/burner stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

D.1.19 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the mixer/dryer, at least once per shift when the drying/mixing process is in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 2.0 and 8.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading. Failure

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to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.20 Baghouse Inspections

An inspection shall be performed each calender quarter of all bags controlling the dryer/burner operation when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

D.1.21 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C Compliance Monitoring Plan Failure to Take Response Steps, shall be considered a violation of this permit.
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B Emergency Provisions).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.22 Cutback Asphalt Production Rate

To document compliance with Condition D.1.10, the Permittee shall maintain daily records at the source of the following values:

- (a) Amount of liquid binder used in the production of cold mix cutback asphalt; and
- (b) Average diluent content of the liquid binder.

D.1.23 Record Keeping Requirements

- (a) To document compliance with Condition D.1.5, the Permittee shall maintain records of the amount of asphalt produced per day.
- (b) To document compliance with Conditions D.1.8 and D.1.9, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO₂ and NO_x emission limits established in Conditions D.1.8 and D.1.9.
 - (1) Calendar dates covered in the compliance determination period;

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(2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide and nitrogen oxide emissions;

(3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (c) To document compliance with Condition D.1.18, the Permittee shall maintain records of visible emission notations of the dryer/burner stack exhaust SV1 once per shift.
- (d) To document compliance with Condition D.1.19, the Permittee shall maintain the following:

Once per shift records of the following operational parameters during normal operation when venting to the atmosphere:

Inlet and outlet differential static pressure.

- (e) To document compliance with Condition D.1.20, the Permittee shall maintain records of the results of the inspections required under Condition D.1.20.
- (f) All records shall be maintained in accordance with Section C General Record Keeping Requirements, of this permit.

D.1.24 Record Keeping

The two (2) tanks identified as 11A and 11B, each with a capacity of 15,000 gallons, and the two (2) tanks identified as 13A and 13B, each with a capacity of 30,000 gallons, shall comply with the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb). These tanks are subject to only 40 CFR Part 60.116b, paragraphs (a) and (b) which requires the Permittee to maintain accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Records shall be kept for the life of the storage tanks.

D.1.25 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.5, D.1.8, D.1.9 and D.1.10 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

COMPLIANCE DATA SECTION

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

This cartification shall be included when submitting monitoring, testing reports/results

Source Name: Rieth-Riley Construction Co., Inc.

Source Address: 2454 West CR 450 North, LaPorte, Indiana 46350

Mailing Address: PO Box 477, Goshen, Indiana 46527-0477

FESOP No.: F 091-12755-03179

or other documents as required by this permit.
Please check what document is being certified:
9 Annual Compliance Certification Letter
9 Test Result (specify)
9 Report (specify)
9 Notification (specify)
9 Affidavit (specify)
9 Other (specify)
I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
Signature:
Printed Name:
Title/Position:
Date:

Rieth-Riley Construction Co., Inc. LaPorte, Indiana

Permit Reviewer: EAL/MES

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

COMPLIANCE BRANCH
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) EMERGENCY OCCURRENCE REPORT

Source Name: Rieth-Riley Construction Co., Inc.

Source Address: 2454 West CR 450 North, LaPorte, Indiana 46350

Mailing Address: PO Box 477, Goshen, Indiana 46527-0477

FESOP No.: F 091-12755-03179

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CThe Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and

CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile

Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A
Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

Rieth-Riley Construction Co., Inc. LaPorte, Indiana Permit Reviewer: EAL/MES

If any of the following are not applicable, mark N/A

Phone:

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Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:
Form Completed by: Title / Position: Date:

A certification is not required for this report.

Rieth-Riley Construction Co., Inc.

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

COMPLIANCE DATA SECTION

FESOP Monthly Report

Source Name: Rieth-Riley Construction Co., Inc.

Source Address: 2454 West CR 450 North, LaPorte, Indiana 46350

Mailing Address: PO Box 477, Goshen, Indiana 46527-0477

FESOP No.: F 091-12755-03179

Facilities: Dryer/Mixer Parameter: PM₁₀

Limit: 1,000,000 tons of asphalt produced per 365 consecutive day period, equivalent to

PM₁₀ emissions less than 92.8 tons per year.

	Month:	Year:	
Day		Day	
1		17	
2		18	
3		19	
4		20	
5		21	
6		22	
7		23	
8		24	
9		25	
10		26	
11		27	
12		28	
13		29	
14		30	
15		31	
16			

9 No deviation occurred in this month.

9	Deviation/s occurred in this month. Deviation has been reported on:				
Title					

Attach a signed certification to complete this report.

Rieth-Riley Construction Co., Inc. LaPorte, Indiana

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

COMPLIANCE DATA SECTION

FESOP Monthly Report

Source Name: Rieth-Riley Construction Co., Inc.

Source Address: 2454 West CR 450 North, LaPorte, Indiana 46350

Mailing Address: PO Box 477, Goshen, Indiana 46527-0477

FESOP No.: F 091-12755-03179

Facilities: Dryer/Mixer

Parameter: SO₂

Limit: 1,700,673 gallons of waste oil per 365 consecutive day period, where each gallon of

Month: _____ Year: ____

#2 distillate oil shall be equivalent to 0.6636 gallons of waste oil, each gallon of #4 distillate oil shall be equivalent to 0.7010 gallons of waste oil, and each million cubic feet of natural gas shall be equivalent to 5.607 gallons of waste oil, equivalent to SO₂

emissions less than 90.986 tons per year.

Day		Day		
1		17		
2		18		
3		19		
4		20		
5		21		
6		22		
7		23		
8		24		
9		25		
10		26		
11		27		
12		28		
13		29		
14		30		
15		31		
16				

9 No deviation occurred in this month.

9	Deviation/s occurred in this month. Deviation has been reported on:				
Title/Po Signat	tted by: osition: ure:				
Date: Phone	:				

Attach a signed certification to complete this report.

Rieth-Riley Construction Co., Inc. LaPorte, Indiana

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

FESOP Monthly Report

Source Name: Rieth-Riley Construction Co., Inc.

Source Address: 2454 West CR 450 North, LaPorte, Indiana 46350

Mailing Address: PO Box 477, Goshen, Indiana 46527-0477

FESOP No.: F 091-12755-03179

Facilities: Dryer/Mixer

Parameter: NO_x

Limit: 10,259,000 gallons of propane per 365 consecutive day period, where each gallon of

Month: _____ Year: _____

#2 distillate oil shall be equivalent to 1.053 gallons of propane, each gallon of #4 distillate oil shall be equivalent to 1.263 gallons of propane, each gallon of butane shall be equivalent to 1.105 gallons of propane, each gallon of waste oil shall be equivalent to 0.8421 gallons of propane, and each million cubic feet of natural gas shall be equivalent to 5.263 gallons of propane, equivalent to NO_x emissions less than 97.461

tons per year.

Day				Day		
1				17		
2				18		
3				19		
4				20		
5				21		
6				22		
7				23		
8				24		
9				25		
10				26		
11				27		
12				28		
13				29		
14				30		
15				31		
16						
	9	No dev	viation occurre	d in this mor	nth.	

9		on/s occurred in this month. on has been reported on:		
Submiti Title/Po Signatu Date: Phone:	sition: ire:			

Attach a signed certification to complete this report.

Rieth-Riley Construction Co., Inc.

LaPorte, Indiana

Permit Reviewer: EAL/MES

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

COMPLIANCE DATA SECTION

FESOP Monthly Report

Source Name: Rieth-Riley Construction Co., Inc.

Source Address: 2454 West CR 450 North, LaPorte, Indiana 46350

Mailing Address: PO Box 477, Goshen, Indiana 46527-0477

FESOP No.: F 091-12755-03179
Facility: Cutback asphalt process

Parameter: VOC

Limit: 1,923 tons of liquid binder used in the production of cutback asphalt per 365

Month: _____ Year: ____

consecutive day period, equivalent to VOC emissions less than 95.8 tons per year.

Day	Day		
1	17		
2	18		
3	19		
4	20		
5	21		
6	22		
7	23		
8	24		
9	25		
10	26		
11	27		
12	28		
13	29		
14	30		
15	31		
16			

9	No deviation occurred in this month.			
9	eviation/s occurred in this month. eviation has been reported on:			

Attach a signed certification to complete this report.

Rieth-Riley Construction Co., Inc. LaPorte, Indiana

Permit Reviewer: EAL/MES

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Rieth-Riley Construction Co., Inc.

Source Address: 2454 West CR 450 North, LaPorte, Indiana 46350

Mailing Address: PO Box 477, Goshen, Indiana 46527-0477

FESOP No.: F 091-12755-03179

Months: to				
	Page 1 of 2			
This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".				
9 NO DEVIATIONS OCCURRED THIS REPORTIN	IG PERIOD.			
9 THE FOLLOWING DEVIATIONS OCCURRED T	HIS REPORTING PERIOD			
Permit Requirement (specify permit condition #)				
Date of Deviation:	Duration of Deviation:			
Number of Deviations:				
Probable Cause of Deviation:	Probable Cause of Deviation:			
Response Steps Taken:				
Permit Requirement (specify permit condition #)				
Date of Deviation:	Duration of Deviation:			
Number of Deviations:				
Probable Cause of Deviation:				
Response Steps Taken:				

Rieth-Riley Construction Co., Inc. LaPorte, Indiana Permit Reviewer: EAL/MES

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Page 2 of 2

	1 age 2 01 2				
Permit Requirement (specify permit condition #)					
Date of Deviation: Duration of Deviation:					
Number of Deviations:					
Probable Cause of Deviation:					
Response Steps Taken:					
Permit Requirement (specify permit condition #)					
Date of Deviation:	Duration of Deviation:				
Number of Deviations:					
Probable Cause of Deviation:					
Response Steps Taken:					
Permit Requirement (specify permit condition #)					
Date of Deviation:	Duration of Deviation:				
Number of Deviations:					
Probable Cause of Deviation:					
Response Steps Taken:					
Form Completed By:					
Title/Position:					
Date:					
Phone:					

Attach a signed certification to complete this report.

Indiana Department of Environmental Management Office of Air Quality

Addendum to the

Technical Support Document for Federally Enforceable State Operating Permit (FESOP)

Source Name: Rieth-Riley Construction Co., Inc.

Source Location: 2454 West CR 450 North, LaPorte, Indiana 46350

County: LaPorte

FESOP: F 091-12755-03179

SIC Code: 2951

Permit Reviewer: Edward A. Longenberger

On December 2, 2000, the Office of Air Quality (OAQ) had a notice published in the LaPorte Herald, LaPorte, Indiana, stating that Rieth-Riley Construction Co., Inc. had applied for a Federally Enforceable State Operating Permit (FESOP) to operate a hot mix asphalt production source with a baghouse. The notice also stated that OAQ proposed to issue a FESOP for this operation and provided information on how the public could review the proposed FESOP and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this FESOP should be issued as proposed.

On December 26, 2000, Dean Logan of Rieth-Riley Construction Co., Inc., submitted comments on the proposed FESOP. The comments are as follows: The permit language, if changed, has deleted language as strikeouts and new language **bolded**.

Comment 1:

Condition D.1.12:

The portion of the condition requiring a preventive maintenance plan for the drum/mixer should be removed. The control device is the only air pollution control and as such should be the only item required to have a preventive maintenance plan. If the drum/mixer is poorly maintained and breaks down then the only production capability of the plant suffers. It is in Rieth-Riley's best interest to maintain the drum/mixer. To have to create and to apply a preventive maintenance plan severs no purpose as preventive measure against air pollution. It only serves as a place where sloppy record keeping or in adequate PMP can cause fines for no compliance of the permit. The permit should only require measures to be sure that the plant is in compliance with the limits for the set forth for each pollutant. To require record keeping, monitoring and creating preventive maintenance plans for equipment that do not control pollution is a waste of time and only complicates the permit to the extent that enforcement issues concerning these areas of the permit also take up valuable time for the enforcement department, who are having to verify that the conditions are being complied with along with the real important items that need to be addressed.

Response 1:

The requirements in 326 IAC 1-6-1 and 326 IAC 1-6-3 specify that the requirement to maintain a Preventive Maintenance Plan (PMP) is applicable to any facility that is required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1. The PMP is applicable to emission units and control devices. The wording of 326 IAC 1-6-5 clarifies that the PMP includes emission units since the PMP can be changed to reduce excessive malfunctions in combustion and process equipment, as well as the control devices.

Rieth-Riley Construction Co., Inc.

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LaPorte, Indiana

OP No. F 091-12755-03179

Permit Reviewer: EAL/MES

Comment 2:

Condition D.1.20:

The inspection of all bags be changed to once every calendar year unless there is a condition or reason described in the PMP or CRP to inspect the bags for leaks. It is a waste of time to be inspecting the baghouse bags if there is not any visible emissions coming out of the stack. If visible emissions are coming out of the stack then the PMP or CRP has provisions for inspecting the bags. If the quarterly inspection does not find any leaks there is not any guarantee that there will not be any leaks until the next quarterly inspection. So if there is not any indication that there are any leaks then it is not necessary to waste the time to check the bags for leaks. Just follow the PMP or CRP as to when to check for leaks is all that is needed.

Response 2:

IDEM, OAQ, considers quarterly inspections not to be onerous. In most cases, all conditions (visible, parametric and baghouse inspections as well as detection) need to be required to ensure continuous compliance. Torn or otherwise failed bags can have a dramatic effect on baghouse performance and few sources have reliable information that demonstrates that compliance can be achieved when compartments are "on-line" with torn bags. No changes to the permit have been made as a result of this comment.

Comment 3:

Condition D.1.21 (b):

I would like to have until the end of the shift or a maximum of 12 hours, before having to shut down because of a broken or failed bag detection. The reason is that there are times when the paving operation needs to go on. For example when an intersection is being paved or when a single lane on a two lane road is being paved, The paving needs to be completed so there is not a safety hazard created for the driving public. With language such as "shut down immediately" does not allow for any leeway to continue to operate. The problem would have to be fixed before the next shift can go into production.

Response 3:

A bag failure could be construed as an "emergency" as defined in condition B.14 for purposes of an affirmative defense against a violation of the specific permit condition. However, once the bag failure is observed, continuing to operate the equipment will vent uncontrolled particulate matter to the atmosphere. IDEM will likely not consider this an attempt by the Permittee to take all reasonable steps to minimize levels of emissions that exceed an emission standard or other requirement in the permit.

Therefore the OAQ believes that the requirement to shutdown the affected compartments is a reasonable action to ensure compliance with the particulate matter limitations. No changes were made as a result of this comment.

Rieth-Riley Construction Co., Inc. LaPorte, Indiana Permit Reviewer: EAL/MES

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Comment 4:

Condition D.1.23 (d) (2):

The Cleaning cycle operation should be removed. Sections D.1.16 and Section C.6 contain the requirement for the control device to be connected and functioning. I have a real problem with recording and keeping track of information that in the end is useless as far as indicating if the baghouse is functioning properly as an effective filter. Since this section is standard boiler plate for FESOPS and it is most likely the Compliance Section asked for this to be included in an attempt to make a one size fits all baghouse. On an asphalt plant baghouse, if the cleaning cycle is not functioning the plant will only be able to run for about 15 minute before the baghouse gets clogged up and chocks off the airflow needed to run production. The cleaning cycle is part of the functioning of the control device. In Section D.1.18 the pressure drop across the baghouse is to be maintained between 2 and 8 inches of water column. If the cleaning cycle of the baghouse is not working then it would not be possible to maintain the allowed range of the pressure drop. In reality the pressure drop and the cleaning cycle time are not indicators as to whether the baghouse is doing its job as a filter. The bags could have holes in the bags and allowing dust to pass right on through the baghouse whether the cleaning cycle is in operation or not. On the other hand if there are not any leaks then there will not be any dust passing through the baghouse whether the cleaning cycle is in operation or not. The cleaning cycle's only function is to keep the baghouse pressure drop with in an operating range. When the bags get clogged up because the cleaning cycle is not turned on or it is set to a timing cycle that is not effective the plant production suffers and nothing else. There is not any advantage to turn off the cleaning cycle. Since the cleaning cycle controls the pressure drop and the pressure drop is not indicative of any thing except how well the dust cake on the dirty side of the bags is being cleaned off, I see no reason for have to record either the cleaning cycle or the baghouse pressure drop. If you were to check with the compliance section you will find the recording the pressure was removed from the General Permit for asphalt plants. I have no problems with monitoring and recording data the can be used to show compliance for conditions of a permit that mean something. I have a real problem in monitoring and recording data that means nothing as far as whether or not the baghouse is or is not effective as a filter to clean the dust from the air passing through the bags. For that reason I would like to have the cleaning cycle time condition removed from the permit.

Response 4:

The purpose of this condition is to ensure that the cleaning cycle on the baghouse is operating properly. Since this baghouse is designed so that the cleaning cycle is continuous, the OAQ agrees that it is not necessary to document the frequency of the cleaning cycle. The pressure drop readings will be sufficient to determine if the cleaning cycle is operating. Therefore, Condition D.1.23(d) (2) has been deleted from the permit as follows:

D.1.23 Record Keeping Requirements

(d) To document compliance with Condition D.1.19, the Permittee shall maintain the following:

Once per shift records of the following operational parameters during normal operation when venting to the atmosphere:

(1) Inlet and outlet differential static pressure; and.

Rieth-Riley Construction Co., Inc.

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Permit Reviewer: EAL/MES

(2) Cleaning cycle operation.

Upon further review, the OAQ has decided to make the following changes to the FESOP: The permit language is changed to read as follows (deleted language appears as strikeouts, new language is **bolded**):

1. Condition D.1.4 has been added to reference the Affidavit of Construction which is required for the proposed construction. The condition is as follows:

Affidavit of Construction

D.1.4 Pursuant to 326 IAC 2-5.1-3,

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), Permit Administration & Development Section.
 - (1) If the Affidavit of Construction verifies that the facilities covered in this Construction Permit were constructed as proposed in the application, then the facilities may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.
 - (2) If the Affidavit of Construction does not verify that the facilities covered in this Construction Permit were constructed as proposed in the application, then the Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section prior to beginning operation of the facilities.
- (b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
- (c) Upon receipt of the Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section, the Permittee shall attach it to this document.

All subsequent condition numbers have been adjusted.

2. A typographical error in the process weight rate in Condition D.1.6 (now D.1.7) has been corrected as follows:

D.1.6 7 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate from the drum/ mixer exhausted through stack SV1 shall not exceed 66.3 pounds per hour when operating at a process weight rate of 80000 800,000 pounds per hour.

3. The IDEM Office of Air Quality has been changed to the Office of Air Quality. Therefore, all references to the Office of Air Quality (OAQ) have been changed to the **Office of Air Quality (OAQ)** in the proposed permit.

Indiana Department of Environmental Management Office of Air Management

Technical Support Document (TSD) for a Federally Enforceable State Operating Permit (FESOP)

Source Background and Description

Source Name: Rieth-Riley Construction Co., Inc.

Source Location: 2454 West CR 450 North, LaPorte, Indiana 46350

County: LaPorte SIC Code: 2951

Operation Permit No.: F 091-12755-03179

Permit Reviewer: Edward A. Longenberger

The Office of Air Management (OAM) has reviewed a FESOP application from Rieth-Riley Construction Co., Inc. relating to the construction and operation of a hot mix asphalt production source.

History

Rieth-Riley Construction Co., Inc. was issued a FESOP (F 091-5480-03179) for a hot mix asphalt plant on December 9, 1996. The source has decided to make large-scale changes to their plant. With the exception of one hot oil heater, all existing significant emission units have been removed, and will be replaced with new equipment. The old plant was a batch plant, the new plant will be a drum mix plant with a counterflow drum mixer. Since the differences between the old plant and the proposed new plant far exceed their similarities, the plant will be considered a new source. This proposed FESOP (F 091-12755-03179) is proposed to replace the current FESOP (F 091-5480-03179).

Permitted Emission Units and Pollution Control Equipment

There are no permitted facilities operating at this source during this review process.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source during this review process.

New Emission Units and Pollution Control Equipment Receiving Prior Approval

The application includes information relating to the prior approval for the construction and operation of the following equipment pursuant to 326 IAC 2-8-4(11):

- (a) One (1) hot oil heater, identified as 14A, to be constructed in 2001, firing natural gas as primary fuel, using #2 fuel oil as backup fuel, exhausting to Stack SV2, capacity: 2.0 million British thermal units per hour.
- (b) One (1) hot oil heater, identified as 14B, originally constructed in 1993, firing natural gas as primary fuel, using #2 fuel oil as backup fuel, exhausting to Stack SV3, capacity: 2.0 million

British thermal units per hour.

- (c) One (1) drum/mixer atomizing burner, identified as 3, to be constructed in 2001, firing waste oil as primary fuel, using #2 fuel oil, #4 fuel oil, natural gas, butane gas, and propane gas as backup fuels, equipped with low NO_x burners and exhausting to Stack SV1, capacity: 125 million British thermal units per hour.
- (d) One (1) counterflow drum mixer, identified as 2, to be constructed in 2001, equipped with a bag collector for PM control and exhausted to stack SV1, capacity: 400 tons per hour.
- (e) Two (2) tanks, identified as 13A and 13B, storing liquid asphalt, to be constructed in 2001, equipped with condenser vents and exhausting to Stacks SV4 and SV5, capacity: 30,000 gallons, each.
- (f) Two (2) tanks, identified as 11A and 11B, storing waste oil, to be constructed in 2001, exhausting to Stacks SV6 and SV7, capacity: 15,000 gallons, each.
- (g) One (1) tank, identified as 12, storing #2 fuel oil, to be constructed in 2001, exhausting to stack SV8, capacity: 10,000 gallons.
- (h) One (1) cold feed system, identified as 1, to be constructed in 2001, capacity: 372 tons of aggregate per hour.
- (i) One (1) recycled asphalt system, identified as 10, to be constructed in 2001, capacity: 200 tons per hour. Crusher capacity: 50 tons per hour.
- (j) Three (3) hot mix storage bins, identified as 5, to be constructed in 2001, capacity: 300 tons, each.
- (k) One (1) mineral filler dust silo, identified as 15, to be constructed in 2001, capacity: 500 barrels.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
- (b) A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (c) The following VOC and HAP storage containers:

Vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids.

- (d) Refractory storage not requiring air pollution control equipment.
- (e) Cleaners and solvents characterized as follows:
 - (1) having a vapor pressure equal to or less than 2 kiloPascals; 15 millimeters of mercury; or 0.3 pounds per square inch measured at 38EC (100EF) or;

(2) having a vapor pressure equal to or less than 0.7 kiloPascals; 5 millimeters of mercury; or 0.1 pounds per square inch measured at 20EC (68EF); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

Existing Approvals

There are no existing approvals issued to this source.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the FESOP be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP application for the purposes of this review was received on September 26, 2000. Additional information was received on October 26, 2000.

There was no notice of completeness letter was mailed to the source.

Emission Calculations

See pages 1 through 13 of 13 of Appendix A of this document for detailed emissions calculations.

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA."

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	33599
PM ₁₀	7934
SO ₂	422
VOC	3.95
СО	47.5
NO _X	116

Note: For the purpose of determining Title V applicability for particulates, PM₁₀, not PM, is the regulated pollutant in consideration.

HAPs	Potential To Emit (tons/year)
TOTAL HAPs *	10.2

^{*} HAPs include benzene, ethyl benzene, formaldehyde, methyl chloroform, naphthalene, toluene, xylene; arsenic, cadmium, chromium, manganese, mercury and nickel compounds. No single HAP exceeds a potential to emit of greater than ten (10) tons per year.

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM_{10} , SO_2 and NO_X is equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) This source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict its PTE to below the Title V emission levels. Therefore, this source will be issued a Federally Enforceable State Operating Permit (FESOP), pursuant to 326 IAC 2-8.

Actual Emissions

No previous emission data has been received from the source.

Potential to Emit After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Federally Enforceable State Operating Permit.

		Potential to Emit (tons/year)					
Process/facility	PM	PM ₁₀	SO ₂	voc	со	NO _x	HAPs
Drum mixer including burner (EU 2 and 3) Worst Case	50.985 (74.265)	12.1 (92.8)	<90.986	3.01	45.9	<97.461	10.2
Hot Oil Heaters (EU 14A and 14B)	0.254	0.419	9.01	0.096	1.47	2.539	0.00
Conveying/Handling	4.51	0.451	0.00	0.00	0.00	0.00	0.00
Screening	51.3	5.13	0.00	0.00	0.00	0.00	0.00
Storage Piles	0.454	0.159	0.00	0.00	0.00	0.00	0.00
Cutback Asphalt	0.00	0.00	0.00	<95.8	0.00	0.00	0.00
Insignificant Activities	1.00	1.00	0.00	1.00	0.00	0.00	0.00
Total Emissions	109 (132)	19.3 (<100)	<100	<100	47.37	<100	Single <10 Total <25

The PM values in parenthesis are the allowable emissions pursuant to NSPS Subpart I. The PM₁₀ values in parenthesis represent the allowable emissions pursuant to 326 IAC 2-8.

County Attainment Status

The source is located in LaPorte County.

Pollutant	Status
PM ₁₀	Attainment
SO ₂	Maintenance
NO ₂	Attainment
Ozone	Attainment
СО	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. LaPorte County has been designated as attainment or unclassifiable for ozone.
- (b) Fugitive Emissions
 This type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2. However, there are applicable New Source Performance Standards that were in effect on August 7, 1980. Therefore, the fugitive emissions are counted toward determination of PSD and Emission Offset applicability.

Federal Rule Applicability

- (a) This asphalt plant is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.90, Subpart I). No owner or operator subject to the provisions of Subpart I shall discharge into the atmosphere from any affected facility any gases which:
 - (1) contain particulate matter in excess of 0.04 grains per dry standard cubic foot, equivalent to 16.95 pounds per hour at a flow rate of 70,000 acfm and a temperature of 250 degrees Fahrenheit.
 - (2) exhibit 20 percent opacity, or greater.
- (b) The one (1) tank, identified as 12, with a capacity of 10,000 gallons is not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb), since the tank has a capacity less than forty (40) cubic meters.

The two (2) tanks, identified as 11A and 11B, each with a capacity of 15,000 gallons, are subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb), since the tanks will be constructed after July 23, 1984. Since these two (2) tanks have capacities less than seventy-five (75) cubic meters, these two (2) tanks are only subject to 40 CFR Part 60.116b, paragraphs (a) and (b), which require record keeping.

The two (2) tanks, identified as 13A and 13B, each with a capacity of 30,000 gallons, are subject to the New Source Performance Standard, 326 IAC 12, (40 CFR Part 60.110b, Subpart Kb), since the tanks will be constructed after July 23, 1984. Since the materials stored in these tanks have a maximum true vapor pressure less than fifteen (15) kilo-Pascals, these two (2) tanks are only subject to 40 CFR Part 60.116b, paragraphs (a) and (b), which require record keeping.

(c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-6 (Emission Reporting)

This source is not subject to 326 IAC 2-6 (Emission Reporting), because it will not emit one hundred (100) tons per year of PM_{10} , SO_2 or NO_X .

326 IAC 2-8-4 (FESOP)

Pursuant to this rule, the amount of PM_{10} , SO_2 , VOC, CO and NO_X shall be limited to less than one hundred (100) tons per year. In addition, the amount of a single HAP shall be limited to less than ten (10) tons per year and the combination of all HAPs shall be limited to less than twenty-five (25) tons per year.

- (a) In order to limit the potential to emit of PM_{10} from the entire source to less than 100 tons per year, the PM_{10} emissions from the drum mixer (including the burner) will be limited to 92.8 tons per year. The source has requested a production limit of 1,000,000 tons of asphalt produced per year. This production limit, combined with an emission factor not to exceed 0.1856 pounds of PM_{10} per ton of asphalt produced, is equivalent to 92.8 tons of PM_{10} per year.
- (b) The applicant has accepted a waste oil fuel limit to the dryer/burner of less than 1,700,673 gallons per year which is equivalent to an SO₂ limit of less than 90.986 tons per year (see page 13 of 13 of Appendix A). The full SO₂ potential emission rate of 9.014 tons per year from the two (2) hot oil heaters has been assumed in computing the limits (see page 1 of 13 of Appendix A).
 - For purposes of determining compliance based on SO_2 emissions, each gallon of #2 distillate oil shall be equivalent to 0.6636 gallons of waste oil, each gallon of #4 distillate oil shall be equivalent to 0.7010 gallons of waste oil, and each MMcf of natural gas shall be equivalent to 5.607 gallons of waste oil.
- (c) Similarly, the applicant has accepted a propane fuel limit to the dryer/burner of less than 10,259,000 gallons per year which is equivalent to an NO_X limit of less than 97.461 tons per year (see page 12 of 13 in Appendix A). The full NO_X potential emission rate of 2.539 tons per year from the two (2) hot oil heaters has been assumed in computing the limits (see page 1 of 13 in Appendix A).

For purposes of determining compliance based on NO_x emissions, each gallon of #2 distillate oil shall be equivalent to 1.053 gallons of propane, each gallon of #4 distillate oil shall be equivalent to 1.263 gallons of propane, each gallon of butane shall be equivalent to 1.105 gallons of propane, each gallon of waste oil shall be equivalent to 0.8421 gallons of propane, and each MMcf of natural gas shall be equivalent to 5.263 gallons of propane.

(d) The applicant has also accepted a liquid binder usage limit for the production of cold mix cutback asphalt of less than 1,923 tons per year which is equivalent to VOC emissions of 95.8 tons per year based on 8.0 percent diluent present in the asphalt.

Due to these limits, the requirements of 326 IAC 2-7 do not apply.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity limitations), except as provided in 326 IAC 5-1-3 (Temporary alternative opacity limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR Part 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

This rule requires that the source not generate fugitive dust to the extent that some portion of the material escapes beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located.

326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)

This rule requires levels of sulfur dioxide emissions from the combustion of #2 distillate and #4 distillate fuel oils not to exceed 0.5 pounds per million British thermal units of heat input (the equivalent of 0.5% sulfur content at a higher heating value of 0.138 MMBtu/gal and a maximum heat input rate of 125 million British thermal units per hour).

This rule also requires levels of sulfur dioxide emissions from the combustion of residual waste oil not to exceed 1.6 pounds per million British thermal units of heat input (the equivalent of 1.062% sulfur content at a higher heating value of 0.142 MMBtu/gal and a maximum heat input rate of 125 million British thermal units per hour). The source has requested a voluntary limit of 1.0% sulfur content.

326 IAC 7-2-1 (Sulfur Dioxide Compliance: reporting and methods to determine compliance)

Reports of calendar month or annual average sulfur content, heat content, fuel consumption, and sulfur dioxide emission rate shall be provided upon request to the Office of Air Management.

326 IAC 8-5-2 (Miscellaneous operations: asphalt paving)

No person shall cause or allow the use of cutback asphalt or asphalt emulsion containing more than seven percent (7%) oil distillate by volume of emulsion for any paving application except the following purposes:

- (a) penetrating prime coating
- (b) stockpile storage

(c) application during the months of November, December, January, February and March.

State Rule Applicability - Individual Facilities

326 IAC 6-3-2 (Process Operations)

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the one (1) counterflow drum mixer shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40$$
 where $E =$ rate of emission in pounds per hour and $P =$ process weight rate in tons per hour

The bag collector shall be in operation at all times the one (1) counterflow drum mixer is in operation, in order to comply with this limit. The PM emissions from the one (1) counterflow drum mixer after controls, including combustion, are 11.64 pounds per hour which is less than the allowable PM emission rate of 66.3 pounds per hour. Therefore, the one (1) counterflow drum mixer is in compliance with this rule. Compliance with the 16.95 pound per hour PM limit required by NSPS Subpart I will assure compliance with this rule.

Testing Requirements

PM and PM $_{10}$ testing is required for the drum mixer and dryer/burner stack exhaust SV1 in order to assure compliance with 326 IAC 2-2, 326 IAC 2-8-4, 326 IAC 6-3-2, and NSPS Subpart I as shown in Appendix A. Stack testing will determine if the actual control efficiencies for both PM and PM $_{10}$ are adequate to demonstrate compliance with the PM and PM $_{10}$ emission limits.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

The one (1) counterflow drum mixer has applicable compliance monitoring conditions as specified below:

- (a) Daily visible emissions notations of the baghouse shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.
- (b) The Permittee shall record the total static pressure drop across the baghouse controlling the one (1) counterflow drum mixer, at least once per shift when the dryer/mixer is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 2.0 to 8.0 inches of water or a range established during the latest stack test. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

These monitoring conditions are necessary because the baghouse for the one (1) counterflow drum mixer must operate properly to ensure compliance with 326 IAC 5-1 (Opacity), 326 IAC 6-3 (Process Operations), 326 IAC 2-8 (FESOP) and NSPS Subpart I.

Conclusion

The construction and operation of this hot mix asphalt production source shall be subject to the conditions of the attached proposed FESOP No.: F 091-12755-03179.

Appendix A: Emission Calculations

Company Name: Rieth-Riley Construction Co., Inc.

Plant Location: 2454 West CR 450 North, LaPorte, Indiana 46350

County: LaPorte FESOP: F 091-12755 Plt. ID: 091-03179

Date: September 26, 2000
Permit Reviewer: Edward A. Longenberger

I. Potential Emissions

A. Source emissions before controls

Hot Oil Heater on Oil (oil/<100MMBTU/uncontrolled)

The following calculations determine the amount of emissions created by #2 distillate fuel oil @ **0.5** % sulfur, based on 8760 hours of use and AP-42, Tables 1.3-1, 1.3-2, 1.3-3

Pollutant: _	4.000 MMBtu 138000.0 Btu/ga	u/hr * 8760 hrs/yr I * 2000 lbs/ton	* Ef (lbs/1000 gal) = (tons/yr)
	PM:	2.0 lbs/1000 gal =	0.254 tons/yr
	PM-10	3.3 lbs/1000 gal =	0.419 tons/yr
	S O x:	71.0 lbs/1000 gal =	9.014 tons/yr
	NOx:	20.0 lbs/1000 gal =	2.539 tons/yr
	V O C:	0.34 lbs/1000 gal =	0.043 tons/yr
	C O:	5.0 lbs/1000 gal =	0.635 tons/yr

Hot Oil Heater on Gas (gas/<100MMBTU/uncontrolled)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3

Pollutant:		stu/hr * 8760 hrs/yr fr * 2000 lbs/ton	* Ef (lbs/MMcf) = (tons/yr)
	PM:	1.9 lbs/MMcf =	0.033 tons/yr
	P M-10:	7.6 lbs/MMcf =	0.133 tons/yr
	SOx:	0.6 lbs/MMcf =	0.011 tons/yr
	NOx:	100.0 lbs/MMcf =	1.752 tons/yr
	V O C:	5.5 lbs/MMcf =	0.096 tons/yr
	C O:	84.0 lbs/MMcf =	1.472 tons/yr

Dryer Burner (gas/<100MMBTU/uncontrolled)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3

Pollutant:	0.000 MMBtu	ı/hr * 8760 hrs/yr	* Ef (lbs/MMcf) = (tons/yr)
	1000 Btu/cf	* 2000 lbs/ton	
	PM:	1.9 lbs/MMcf =	0.0000 tons/yr
	P M-10:	7.6 lbs/MMcf =	0.000 tons/yr
	SOx:	0.6 lbs/MMcf =	0.000 tons/yr
	NOx:	100.0 lbs/MMcf =	0.0000 tons/yr
	V O C:	5.5 lbs/MMcf =	0.000 tons/yr
	C O:	84.0 lbs/MMcf =	0.000 tons/vr

Dryer Burner (gas/>100MMBTU/uncontrolled)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3

Pollutant:	t: 0.000 MMBtu/hr * 8760 hrs/yr			* Ef (lbs/MMcf) (tons/yr
_	1000 Btu/cf	* 2000 lbs/	/ton	
	PM:	1.9	lbs/MMcf =	0.000 tons/yr
	P M-10:	7.6	lbs/MMcf =	0.000 tons/yr
	SOx:	0.6	lbs/MMcf =	0.000 tons/yr
	NOx:	280.0	lbs/MMcf =	0.00 tons/yr
	V O C:	5.5	lbs/MMcf =	0.000 tons/yr
	C O:	84.0	lbs/MMcf =	0.000 tons/yr
	Oryer Burner		(gas/>100MMBTU/low	nox)

The following calculations determine the amount of emissions created by natural gas combustion, based on 8760 hours of use, AP-42 Ch. 1.4, Tables 1.4-1, 1.4-2, 1.4-3 (low NOx burner = 140, flue gas recirculation = 100)

Pollutant:	125.000 MMBt	u/hr * 8760 hrs/yr	* Ef (lbs/MMcf) (tons/y	r)
	1000 Btu/cf	* 2000 lbs/ton	·	
	PM:	1.9 lbs/MMcf =	1.040 tons/yr	
	P M-10:	7.6 lbs/MMcf =	4.161 tons/yr	
	SOx:	0.6 lbs/MMcf =	0.329 tons/yr	
	NOx:	140.0 lbs/MMcf =	76.650 tons/yr	
	V O C:	5.5 lbs/MMcf =	3.011 tons/yr	
	C O:	84.0 lb/MMcf =	45.990 tons/yr	

(#2 oil) **Dryer Burner** >100

The following calculations determine the amount of emissions created by #2 distillate

fuel oil @ **0.5** % sulfur, based on 8760 hours of use and AP-42, Tables 1.3-1, 1.3-2, 1.3-3

Pollutant:	125.0 MMBtu	/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	138000.0 Btu/gal	* 2000 lbs/ton	
	PM:	2.0 lbs/1000 gal =	7.935 tons/yr
>100 mmBt	PM-10:	3.3 lbs/1000 gal =	13.092 tons/yr

If Rating	>100 mmBt	PM-10:	3.3 lbs/1000 gal =	13.092 tons/yr
		SOx:	71.0 lbs/1000 gal =	281.685 tons/yr
NOx:	24.0	NOx:	24.0 lbs/1000 gal =	95.217 tons/yr
V O C:	0.20	V O C:	0.20 lbs/1000 gal =	0.793 tons/yr
		C O:	5.0 lbs/1000 gal =	19.837 tons/yr

(#4 oil/ <100MMBTU) **Dryer Burner**

The following calculations determine the amount of emissions created by #4 distillate

0.5 % sulfur, based on 8760 hours of use and AP-42, Tables 1.3-1, 1.3-2, 1.3-3 fuel oil @

Pollutant:	0.000 MMBtu	ı/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
	138000.0 Btu/ga	I * 2000 lbs/ton	
	PM:	2.0 lbs/1000 gal =	0.000 tons/yr
	PM-10:	3.3 lbs/1000 gal =	0.000 tons/yr
	SOx:	71.0 lbs/1000 gal =	0.000 tons/yr
	NOx:	20.0 lbs/1000 gal =	0.000 tons/yr
	V O C:	0.34 lbs/1000 gal =	0.000 tons/yr
	C O:	5.0 lbs/1000 gal =	0.000 tons/yr

(#4 oil/ >100MMBTU) Dryer Burner

The following ca fuel oil @			nissions created by #4 distillate 760 hours of use and AP-42, Tables 1.3	3-1, 1.3-2, 1.3-3	
	Pollutant:	125.0 MMBt	u/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)	
		138000.0 Btu/ga	l * 2000 lbs/ton		
		PM:	2.0 lbs/1000 gal =	7.935 tons/yr	
		PM-10:	3.3 lbs/1000 gal =	13.092 tons/yr	
		S O x:	75.0 lbs/1000 gal =	297.554 tons/yr	
		NOx:	24.0 lbs/1000 gal =	95.217 tons/yr	
		V O C:	0.20 lbs/1000 gal =	0.793 tons/yr	
		C O:	5.0 lbs/1000 gal =	19.837 tons/yr	
			(waste oil/ vaporizin	•	
			nissions created by waste	0.000	% As
uel oil @	0.500 %	sulfur, based on 8	760 hours of use and AP-42, Chapter 1	.110.000	% Lea
	Pollutant:	0.0 MMBt	u/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)	
		0.0 Btu/ga	l * 2000 lbs/ton		
		PM:	0.0 lbs/1000 gal =	0.000 tons/yr	
		P M-10:	0.0 lbs/1000 gal =	0.000 tons/yr	
		S O x:	50.0 lbs/1000 gal =	0.000 tons/yr	
		NOx:	11.0 lbs/1000 gal =	0.000 tons/yr	
		VOC	1.0 lbs/1000 gal =	0.000 tons/yr	
		C O:	1.7 lbs/1000 gal =	0.000 tons/yr	
		Pb:	0.0 lbs/1000 gal =	0.000 tons/yr	
			(waste oil/atomizing	burner)	
The following ca	alculations determin	e the amount of en	nissions created by waste	1.000	% As
uel oil @	1.000 %	sulfur, based on 8	760 hours of use andAP-42 Chapter 1.1	0.010	% Lea
	Pollutant:	125.000 MMBt	u/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)	
		142000.000 Btu/ga	l * 2000 lbs/ton		
		PM:	66.0 lbs/1000 gal =	254.472 tons/yr	
		P M-10:	57.0 lbs/1000 gal =	219.771 tons/yr	
		S O x:	107.0 lbs/1000 gal =	412.553 tons/yr	
		NOx:	16.0 lbs/1000 gal =	61.690 tons/yr	
		VOC	1.0 lbs/1000 gal =	3.856 tons/yr	
		C O:	2.10 lbs/1000 gal =	8.097 tons/yr	
		Pb:	0.50 lbs/1000 gal =	1.928 tons/yr	

		ryer Burner	(butane)	
•			issions created by butane	
gas @	0.0 %	sulfur, based on 87	'60 hours of use and AP-42, Table 1.5-2	2
	Pollutant:		ı/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
		102600.0 Btu/gal	* 2000 lbs/ton	
		PM:	0.6 lbs/1000 gal =	3.202 tons/yr
		PM-10:	0.6 lbs/1000 gal =	3.202 tons/yr
		SOx:	0.0 lbs/1000 gal =	0.000 tons/yr
		NOx:	21.0 lbs/1000 gal =	112.061 tons/yr
		V O C:	0.26 lbs/1000 gal =	1.387 tons/yr
		C O:	3.6 lbs/1000 gal =	19.211 tons/yr
The following o	calculations determin		(propane) issions created by propane 60 hours of use and AP-42, Table 1.5-2	o
		, , , , , , , , , , , , , , , , , , , ,	,	
	Pollutant:	125.000 MMBtu	ı/hr * 8760 hrs/yr	* Ef (lbs/1000 gal) = (tons/yr)
		91500.0 Btu/gal	* 2000 lbs/ton	
		PM:	0.6 lbs/1000 gal =	3.590 tons/yr
		PM-10:	0.6 lbs/1000 gal =	3.590 _tons/yr
		S O x:	0.0 lbs/1000 gal =	tons/yr
		NOx:	19.0 lbs/1000 gal =	113.689 tons/yr
		V O C:	0.25 lbs/1000 gal =	1.496 tons/yr
		C O:	3.2 lbs/1000 gal =	19.148 tons/yr

** aggregate drying: drum-mix plant **

The following calculations determine the amount of emissions created by aggregate drying, based on 8760 hours of use and EPA SCC #3-05-002-05:

PM:	19 lbs/ton x	400.0	tons/hr x	8760 hrs/yr =	33288.000 tons/yr
		2000	lbs/ton		
P M-10:	4.4 lbs/ton x	400	tons/hr x	8760 hrs/yr =	7708.800 tons/yr
		2000	lbs/ton		
Lead:	3.30000000E-06 lbs/ton x	400	tons/hr x	8760 hrs/yr =	0.006 tons/yr
		2000	lbs/ton		
HAPs:	0.0058 lbs/ton x	400	tons/hr x	8760 hrs/yr =	10.162 tons/yr
		2000	lbs/ton		

HAPs include benzene, ethylbenzene, formaldehyde, methyl chloroform, naphthalene, toluene, xylene; arsenic, cadmium, chromium, manganese, mercury, and nickel compounds.

* * aggregate drying: batch-mix plant * *

The following calculations determine the amount of emissions created by aggregate drying, based on 8760 hours of use and EPA SCC #3-05-002-05:

P M:	32 lbs/ton x	0.0	tons/hr x	8760 hrs/yr =	0.0 tons/yr
		2000	lbs/ton	<u> </u>	
P M-10:	4.5 lbs/ton x	0	tons/hr x	8760 hrs/yr =	0.0 tons/yr
		2000	lbs/ton		
Lead:	3.30000000E-06 lbs/ton x	0	tons/hr x	8760 hrs/yr =	0.000 tons/yr
		2000	lbs/ton		
HAPs:	0.0058 lbs/ton x	0	tons/hr x	8760 hrs/yr =	0.000 tons/yr
		2000	lbs/ton		

HAPs include benzene, ethylbenzene, formaldehyde, methyl chloroform, naphthalene, toluene, xylene; arsenic, cadmium, chromium, manganese, mercury, and nickel compounds.

** conveying / handling **

The following calculations determine the amount of emissions created by material handling of aggregate, based on 8760 hours of use and AP-42, Ch 11.19.2

	Ef = .0032* where k= U = M =	(U/5)^1.3 * k = (M/2)^1.4 1 (particle size m 12 mph mean wind 5.0 % moisture	nultiplier)	ase)	0.003_lbs/ton			
P M :	0.003 lbs/ton x		372 tons/hr x		8760 hrs/yr =	4.512 tons/yr		
	P M-10:	10% of PM =				0.451 tons/yr		
Screening	PM:	372 tons/hr x	(0.0315 lbs/ton	/ 2000 lbs/ton x	8760 hrs/yr =	51.325 _tons/yr	AP-42 Ch.11.19.2
	P M-10:	10% of PM =				5.132 tons/yr		

** unpaved roads **

The following calculations determine the amount of emissions created by vehicle traffic on unpaved roads, based on 8760 hours of use and AP-42, Ch 11.2.1.

A. Tri-axle Tri	uck trips/hr x							
	miles/roundtrip x							
	hrs/yr =		0.0 miles per year					
For PM	1113/y1 –	For PM-10	nilics per year					
IOIFW	⊏f -		*[(W/3)^b]/[(Mdry/0.2)^c]}*[(365-p)/365	11				
11.24	=		lb/mile	ני				
10	where k =		(particle size multiplier for PM-10) (k=	-10 for DM 20 or TSB)\			
4.8	s =		mean % silt content of unpaved roads)			
0.5	b =			Constant for PM-10 (b = 0.5 for PM-30 or TSP)				
0.4	C =		Constant for PM-10 (b = 0.5 for PM-30 or TSP) Constant for PM-10 (c = 0.4 for PM-30 or TSP)					
38	W =		tons average vehicle weight	0 01 13F)				
0.2	Mdry =		surface material moisture content, %	(default is 0.2 for dry	conditions)			
125	p =		number of days with at least 0.254mr					
120		lb/mi x	0 mi/yr =	PM	0.00 tons/yr			
-	11.24		lb/ton		0.00 tons/yr			
		2000	15/1011					
_	2.27	lb/mi x	0 mi/yr =	PM-10	0.00 tons/yr			
		2000	lb/ton					
B. Front End I								
	trips/hr x							
	miles/roundtrip x							
	hrs/yr =		0.0 miles per year					
For PM		For PM-10						
			[(W/3)^b]/[(Mdry/0.2)^c]}[(365-p)/365	5]				
11.24	=		lb/mile					
10	where k =		(particle size multiplier for PM-10) (k=		")			
4.8	s =		mean % silt content of unpaved roads					
0.5	b =		Constant for PM-10 (b = 0.5 for PM-3	,				
0.4	C =		Constant for PM-10 (c = 0.4 for PM-3	0 or TSP)				
38	W =		tons average vehicle weight					
0.2	Mdry =		surface material moisture content, %					
125	p =	125	number of days with at least 0.254mr	n of precipitation (See	e Figure 13.2.2-1)			
_	11.24	lb/mi x	0 mi/yr =	PM	0.00 tons/yr			
		2000	lb/ton					
	2 27	lb/mi x	0 mi/yr =	PM-10	0.00 tons/yr			
-	2.21		lb/ton		0.00 tons/yr			
C. Semi Truck	•	2000	10/1011					
	trips/hr x							
	miles/roundtrip x							
	hrs/yr =		0.0 miles per year					
For PM		For PM-10						
	Ff=		*[(W/3)^b]/[(Mdry/0.2)^c]}*[(365-p)/365	51				
11.24	=		lb/mile	1				
10	where k =		(particle size multiplier for PM-10) (k=	=10 for PM-30 or TSP	')			
4.8	s =		mean % silt content of unpaved roads		,			
0.5	b =		Constant for PM-10 (b = 0.5 for PM-3					
0.4	C =		Constant for PM-10 ($c = 0.4$ for PM-3					
38	W =		tons average vehicle weight	3 31 101)				
0.2	Mdry =		surface material moisture content, %	(default is 0.2 for dry	conditions)			
125	p =		number of days with at least 0.254mr					
120	p =	123	maniper of days with at least 0.204111	o. prodipitation (Oct	5gui 6 .0.2.2-1)			

	11.24 lb/mi	X	0 mi/yr =	PM	0.00 tons/yr
		2000 lb/ton			
	2.27 lb/mi	x	0 mi/yr =	PM-10	0.00 tons/yr
-		2000 lb/ton	•		
All Trucking	Total PM:	0.00 tons/yr			
	Total PM-10:	0.00 tons/yr			

* * storage * *

The following calculations determine the amount of emissions created by wind erosion of storage stockpiles, based on 8760 hours of use and AP-42, Ch 11.2.3.

Ef =	1.7*(s/1.5)*(36	65-p)/235*(f/15)	
=	1.74	lbs/acre/day for sand	
=	1.16	lbs/acre/day for stone	
=	1.16	lbs/acre/day for slag	
=	1.16	lbs/acre/day for gravel	
=	1.16	lbs/acre/day for RAP	
where s =	1.5	% silt for sand	
s =	1.0	% silt of stone	
s =	1.0	% silt of slag	
s =	1.0	% silt of gravel	
s =	1.0	% silt for RAP	
p =	125	days of rain greater than or equal to 0.	.01 inches
f =	15	% of wind greater than or equal to 12 r	mph
		uft/ton) * (365 days/yr)	_
	,	*(43560 sqft/acre)*(25 ft)	
=		tons/yr for sand	
=		tons/yr for stone	
=		tons/yr for slag	
=		tons/yr for gravel	
=		tons/yr for RAP	_
Total PM:	0.908	tons/yr	
where sc =		,000 tons storage capacity for sand	
sc =		,000 tons storage capacity for stone	
sc =		,000 tons storage capacity for slag	
sc =		,000 tons storage capacity for gravel	
sc =	40	,000 tons storage capacity for RAP	
P M-10:	250/	of PM =	0.049 tons/yr for sand
r IVI-10.		of PM =	0.081 tons/yr for stone
		of PM =	0.067 tons/yr for slag
		of PM =	0.067 tons/yr for gravel
		of PM =	0.057 tons/yr for RAP
Total PM-10:	33%	OI I WI -	0.318 tons/yr
i Ulai Fivi-10.			U.310 tons/yi

Emissions before controls (combustion plus production) are as follows:

natural gas	#2 oil	#4 oil Plus Hot Oil Heater on #2	waste oil
P M: 33346 tons/yr	P M: 33352.9 tons/yr	P M: 33352.933 tons/yr	P M:33599.216 tons/yr
P M-10: 7719 tons/yr	P M-10: 7728.2 tons/yr	P M-10: 7715.120 tons/yr	P M-10: 7934.472 tons/yr
S O x: 0.339 tons/yr	S O x: 290.7 tons/yr	S O x: 306.568 tons/yr	S O x: 412.553 tons/yr
N O x: 78.4 tons/yr	N O x: 97.8 tons/yr	N O x: 97.757 tons/yr	N O x: 61.690 tons/yr
V O C: 3.108 tons/yr	V O C: 0.837 tons/yr	V O C: 0.837 tons/yr	V O C: 3.856 tons/yr
C O: 47.5 tons/yr	C O: 20.5 tons/yr	C O: 20.472 tons/yr	C O: 8.097 tons/yr
Lead: 0.006 tons/yr	Lead: 0.006 tons/yr	Lead: 0.006 tons/yr	Lead: 0.006 tons/yr
HAPs: 10.16 tons/yr	HAPs: 10.16 tons/yr	HAPs: 10.162 tons/yr	HAPs: 10.162 tons/yr

butane			propane		
P M:	33348	tons/yr	P M:	33349	tons/yr
P M-10:	7718	tons/yr	P M-10:	7719	tons/yr
S O x:	0.000	tons/yr	S O x:	0.0	tons/yr
NOx:	112.1	tons/yr	NOx:	113.7	tons/yr
V O C:	1.387	tons/yr	V O C:	1.496	tons/yr
C O:	19.2	tons/yr	C O:	19.1	tons/yr
Lead:	0.006	tons/yr	Lead:	0.006	tons/yr
HAPs:	10.16	tons/yr	HAPs:	10.16	tons/yr

B. Source emissions after controls

	dryer combustion: gas			
PΝ	1: 1.04 tons/yr x	0.00152	emitted after controls =	0.002 tons/yr
P M-10		0.00152	emitted after controls =	0.006 tons/yr
	dryer combustion: #2 oil			
PΝ	/l: 7.93 tons/yr x	0.00152	emitted after controls =	0.012 tons/yr
P M-10	0: 13.09 tons/yr x	0.00152	emitted after controls =	0.020 tons/yr
	hot oil heater combustion:	gas	-	
PΝ	1: 0.033 tons/yr x	1.00000	emitted after controls =	0.033 tons/yr
P M-10	0.133 tons/yr x	1.00000	emitted after controls =	0.133 tons/yr
	hot oil heater combustion:	#2 oil		
PΝ	1: 0.254 tons/yr x	1.00000	emitted after controls =	0.254 tons/yr
P M-10	0: 0.419 tons/yr x	1.00000	emitted after controls =	0.419 tons/yr
	dryer combustion: #4 oil		-	
PΝ	1: 7.93 tons/yr x	0.00152	emitted after controls =	0.012 tons/yr
P M-10	0: 13.09 tons/yr x	0.00152	emitted after controls =	0.020 tons/yr
	dryer combustion: waste o	il		
PΝ	/i: 254.47 tons/yr x	0.00152	emitted after controls =	0.387 tons/yr
P M-10	0: 219.77 tons/yr x	0.00152	emitted after controls =	0.334 tons/yr
	dryer combustion: butane			
PΝ	1: 3.20 tons/yr x	0.00152	emitted after controls =	0.005 tons/yr
P M-10	0: 3.20 tons/yr x	0.00152	emitted after controls =	0.005 tons/yr

dryer combustion: propane

PM:	3.59 tons/yr x	0.00152 emitted after controls =	0.005 tons/yr
P M-10:	3.59 tons/yr x	0.00152 emitted after controls =	0.005 tons/yr
agg	regate drying:		
PM:	33288.00 tons/yr x	0.00152 emitted after controls =	50.598 tons/yr
P M-10:	7708.80 tons/yr x	0.00152 emitted after controls =	11.717 tons/yr
con	veying/handling:		
PM:	4.51 tons/yr x	1.000 emitted after controls =	4.512 tons/yr
P M-10:	0.45 tons/yr x	1.000 emitted after controls =	0.451 tons/yr
scre	ening		
PM:	51.32 tons/yr x	1.000 emitted after controls =	51.325 tons/yr
P M-10:	5.13 tons/yr x	1.000 emitted after controls =	5.132 tons/yr
unp	aved roads:		
РМ: •	0.00 tons/yr x	50.00% emitted after controls =	0.000 tons/yr
P M-10:	0.00 tons/yr x	50.00% emitted after controls =	0.000 tons/yr
stor	age:		
PM:	0.908 tons/yr x	50.00% emitted after controls =	0.454 tons/yr
P M-10:	0.318 tons/yr x	50.00% emitted after controls =	0.159 tons/yr

Emissions after controls (combustion plus production) are as follows:

	butane	propane	Gas	#2 Oil	#4 Oil	Waste Oil	
P M:	107.1	107.1	106.9	107.2	106.900	107.275	tons/yr
P M-10:	17.9	17.9	17.6	17.9	17.480	17.794	tons/yr

II. Allowable Emissions

A. The following calculations determine compliance with NSPS Subpart I, which limits stack emissions from asphalt plants to 0.04 gr/dscf:

0.04 grains * 70000.00		528	*	100	-	5 % moisture
dscf	460	+ 25	50 Temp		100	
525600 minutes *	1 *	200	1 ton =		74.265 tons/yr	
year	7000 grains	200	00 lbs			
To meet NSPS Subpart I, the following value must b	e < amount calculated above			51.2 tons/yr		

B. The following calculations determine the maximum sulfur content of distillate #2 fuel oil allowable by 326 IAC 7:

 limit:
 0.5 lbs/MMBtu

 0.5 lbs/MMBtu x
 138000.0
 Btu/gal=
 69.0
 lbs/1000gal

 69 lbs/1000gal /
 142.0
 lb/1000 gal =
 0.486

 Sulfur content must be less than or equal to and to limit SO2 emissions to 99 tons per year or less.
 0.486
 % to comply with 326 IAC 7

C. The following calculations determine the maximum sulfur content of residual waste fuel oil allowable by 326-IAC 7:

limit: 1.6 lbs/MMBtu

227.2 lbs/1000gal / 214.0 lbs/1000 gal = 1.062 (check burner type)

Sulfur content must be less than or equal to
and to limit SO2 emissions to 99 tons per year or less.

D. The following calculations determine the maximum sulfur content of distillate #4 fuel oil allowable by 326-IAC 7:

limit: 0.5 lbs/MMBtu

0.5 lbs/MMBtu x 138000.000 Btu/gal= 69 lbs/1000gal

69 lbs/1000gal / **150.0** lbs/1000 gal = **0.460**

Sulfur content must be less than or equal to and to limit SO2 emissions to 99 tons per year or less.

9.460 % to comply with 326 IAC 7

III. Limited Potential Emissions

FUEL USAGE LIMITATION: BASED ON NOx

FUEL USAGE LIMITATION FOR HOT OIL HEATER ALONE (OIL)

2.54 tons NOx year	*	2000 lbs ton	=	5078.26 <u>lbs NOx</u> year
5078.26 lbs NOx year		20 lbs NOx kgal	=	253.91 kgal year
253.91 <u>kgal</u> year	*	97.461 tons/year 2.54 tons/year	=	0.0 gal fuel year
FUEL USAGE LIMITATION FOR I	BURNER (Gas)			
76.65 tons NOx year	*	2000 <u>lbs</u> ton	=	153300 <u>Ibs NOx</u> year
153300 lbs NOx year	_ /	100.0 lbs NOx MMcf	=	1533.00 MMcf year
1533.00 MMcf year	*	97.461 tons/yr 76.65 tons/yr	=	0.0 MMcf FESOP Limit year
FUEL USAGE LIMITATION FOR I	BURNER (#2 Oil)			
95.22 tons NOx year	*	2000 lbs ton	=	190434.00 <u>lbs NOx</u> year
190434.00 <u>lbs NOx</u> year	_ /	20 lbs 1000 gal	=	9521.70 <u>kgal</u> year
9521.70 kgal year	*	97.461 tons/yr 95.22 tons/yr	=	0.0 kgal FESOP Limit year
FUEL USAGE LIMITATION FOR I	BURNER (#4 Oil)			
95.22 tons NOx year	*	2000 lbs ton	=	190434.00 <u>lbs NOx</u> year
190434.00 lbs NOx year	_ /	24.0 lbs 1000 gal	=	7934.75 <u>kgal</u> year
7934.75 <u>kgal</u> year	*	97.461 tons/yr 95.22 tons/yr	=	0.0 kgal FESOP Limit year

FUEL USAGE LIMITATION FOR BURNER (Waste Oil)

	ons NOx /ear	*	2000 lbs ton	=	123380.28 <u>lbs NOx</u> year	_
123380.28 <u>II</u> y	bs NOx year	1	16.0 <u>lbs</u> 1000 gal	=	7711.27 <u>kgal</u> year	_
7711.27 <u>k</u> y	kgal vear	*	97.461 tons/yr 61.69 tons/yr	=	0.0 kgal year	FESOP Limit
FUEL USAGE LIMITA	ATION FOR BURNER (butane)				
112.06 <u>t</u> y	ons NOx year	*	2000 lbs ton	=	224122.00 <u>lbs NOx</u> year	_
224122.00 <u>II</u>	bs NOx year	1	21.0 lbs 1000 gal	=	10672.48 kgal year	_
10672.48 <u>k</u> y	gal /ear	*	97.461 tons/yr 112.06 tons/yr	=	9282.1 kgal year	FESOP Limit
FUEL USAGE LIMITA	ATION FOR BURNER	propane)				
113.69 <u>tr</u> y	ons NOx year	*	2000 lbs ton	=	227378.00 <u>lbs NOx</u> year	_
227378.00 <u>II</u>	bs NOx year	1	19.0 lbs 1000 gal	=	11967.26 kgal year	_
11967.26 <u>k</u> y	kgal year	*	97.461 tons/yr 113.69 tons/yr	=	10259.1 kgal year	FESOP Limit
FUEL USAGE LIMITATION: BASED	ON SO2					
FUEL USAGE LIMITA	ATION FOR HOT OIL H	IEATER ON OIL				
	ons SO2 /ear	*	2000 lbs ton	=	18027.83 <u>lbs SO2</u> year	_
18027.83 <u>II</u> y	bs SO2 /ear	1	71.0 <u>lbs SO2</u> <u>kgal</u>	=	253.91 <u>kgal</u> year	_
253.91 <u>k</u> y	kgal vear	*	90.986 tons/year 9.01 tons/year	=	0.0 gal fuel year	_

FUEL USAGE LIMITATION FOR BURNER (Gas)

0.329 tons SO2 year	*	2000 <u>lbs</u> ton	=	658.00 lbs SO2 year	_
658.00 <u>lbs SO2</u> year	1	0.6 lbs SO2 MMcf	=	1096.67 <u>MMcf</u> year	_
1096.67 <u>MMcf</u> year	* -	90.986 tons/yr 0.33 tons/yr	=	0.0 MMcf year	FESOP Limit
FUEL USAGE LIMITATION FOR BU	JRNER (#2 Oil)				
281.7 tons SO2 year	*	2000 lbs ton	=	563370.00 <u>lbs SO2</u> year	_
563370.00 <u>lbs SO2</u> year	1	71.0 lbs 1000 gal	=	7934788.73 <u>g</u> al year	_
7934788.73 <u>g</u> al year	* _	90.986 tons/yr 281.69 tons/yr	=	2562985.9 <u>gal</u> year	FESOP Limit
FUEL USAGE LIMITATION FOR BU	JRNER (#4 Oil)	See Below for calculation of #4 oi	l limit		
297.6 tons SO2 year	*	2000 <u>lbs</u> ton	=	595108 lbs SO2 year	_
595108.00 <u>lbs SO2</u> year	1	75.0 lbs 1000 gal	=	7934773.33 <u>g</u> al year	_
7934773.33 <u>gal</u> year	* _	90.986 tons/yr 297.55 tons/yr	=	2426293.3 gal year	FESOP Limit
FUEL USAGE LIMITATION FOR BU	JRNER (Waste Oil)				
412.6 tons SO2 year	*	2000 Ibs ton	=	825105.63 lbs SO2 year	_
825105.63 <u>lbs SO2</u> year	I	107.0 <u>lbs</u> 1000 gal	=	7711267.61 <u>gal</u> year	_